

REMARKS

Applicants thank the Examiner for the very thorough consideration given the present application.

Claims 1-17 are now present in this application. Claims 1, 11 and 13 are independent. Claims 1, 11 and 13 have been amended.

Reconsideration of this application, as amended, is respectfully requested.

Rejection Under 35 U.S.C. § 102

Claims 11-12 stand rejected under 35 U.S.C. § 102(b) as being anticipated by U.S. Patent No. 5,831,591 to Suh. This rejection is respectfully traversed.

Figures 3A through 3E of Suh show screen configurations wherein the desired screen mode is selected from a screen selection menu by selecting one of the screen configuration choices. FIG. 3A shows a normal TV mode in which the main video signal is displayed on the entire double-picture type screen. FIG. 3B shows an information mode in which only the information signal is displayed on the entire double-picture type screen. FIG. 3C shows a TV and information mode in which the information signal is displayed by being superimposed on the main video screen. FIG. 3D shows a double TV mode in which the double-picture type screen is vertically divided into two partitions

wherein the main video signal is displayed in one partition and the sub-video signal is displayed in the other, and FIG. 3E shows a TV and information mode in which the double-picture type screen is vertically divided into two partitions wherein the main video signal is displayed in one partition and the information signal is displayed in the other (See Suh, Col.3, lines 40-58).

When a screen mode displaying at least one TV signal is selected, the double window processing unit 100 of FIG. 1 selects one of the main video signal and the sub-video signal received under the control of the TV microcomputer 110 and displays the selected signal or selects both signals according to the configuration selected (see Suh, Col.3, lines 61-67).

The Examiner states that the Applicants' arguments (filed May 10, 2002) with respect to claims 11-12 have been considered but they are not persuasive. In the response filed May 10, 2002, Applicants argued that after a user selects between a TV signal or an information signal, the user does not have any control in terms of displaying or otherwise manipulating the information that is displayed on the screen. Particularly, after a user selects a screen mode displaying a TV signal or an information signal, Suh provides no means of setting one of the plurality of screens as an interactive menu display screen wherein a user may select program specific information from the interactive menu, or displaying a menu element showing program specific information on the menu display screen. In other words, the information displayed in the

device or Suh is not interactive. Applicants have amended claim 11 to clarify that the steps of interactive menu display and manipulation are separate steps from a step of selecting a screen mode and that they occur after the screen mode is selected. Therefore Suh does not teach setting one of the plurality of screens as an interactive menu display screen wherein a user may select program specific information from said menu, including broadcasting program information, as recited in independent claim 11, as amended.

Claim 12 depends on independent claim 11, and therefore is patentable at least for the reasons stated with respect to independent claim 11. Reconsideration and withdrawal of this art grounds of rejection are respectfully requested.

Rejections under 35 U.S.C. § 103

Claims 1-10 and 13-17 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Suh and U.S. Patent No. 6,141,003 to Chor et al. (Chor). This rejection is respectfully traversed.

Suh, argued above with respect to independent claim 11, fails to disclose or suggest setting one of the plurality of screens as an interactive menu display screen wherein a user may select program specific information from said menu, including broadcasting program information. This is partly due to the device of Suh providing no interactive capability between a user and the information

displayed. Therefore, in like manner, Suh does not disclose or suggest determining whether or not a menu key is input to display interactive program specific information including broadcasting program information, as recited in independent claim 1 (as amended), and similarly stated in independent claim 13 (as amended). Chor cannot fill this vacancy.

Further, the Examiner admits that Suh is silent with regard to an icon being included in a menu. On the other hand, Chor discloses a GUI using a channel bar with icons to assist the viewer while navigating channels, but is silent with regard to adjusting the size of any icon when the viewer performs the transition between a full screen mode operation and windows mode of operation by pressing the "Window" icon shown in Fig. 6. Therefore, neither Suh, nor Chor discloses or suggests adjusting sizes of one or more interactive icons of said menu so as to be distinguishably recognized by said user when displayed on said menu-display screen, as recited in independent claim 13.

Claims 2-10 and 14-17 depend, either directly or indirectly, on independent claims 1 and 13. Since neither Suh, nor Chor discloses or suggest determining whether or not a menu key is input to display interactive program specific information including broadcasting program information, Suh in combination with Chor cannot render claims 1-10 and 13-17 obvious to one of ordinary skill in the art. Reconsideration and withdrawal of this art grounds of rejection are respectfully requested.

Conclusion

All of the stated grounds of rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding rejections and that they be withdrawn. It is believed that a full and complete response has been made to the outstanding Office Action, and as such, the present application is in condition for allowance.

If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone Percy L. Square, Registration No. 51,084, at (703) 205-8034, in the Washington, D.C. area.

Prompt and favorable consideration of this Amendment is respectfully requested.

Pursuant to 37 C.F.R. §§ 1.17 and 1.136(a), the Applicants respectfully petition for a one (1) month extension of time for filing a response in connection with the present application and the required fee of \$110.00 is attached herewith.

Attached hereto is a marked-up version of the changes made to the application by this Amendment.

Application No.: 09/475,135
Art Unit 2614

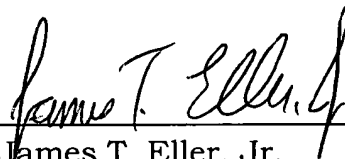
Attorney Docket No. 0465-0647P
Amendment filed on November 18, 2002
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If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16 or 1.17; particularly, extension of time fees.


Respectfully submitted,

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Attachment: Version with Markings to Show Changes Made

VERSION WITH MARKINGS TO SHOW CHANGES MADE

In the Claims:

The claims have been amended as follows:

1. (Twice Amended) A method for displaying a menu of a TV comprising the steps of:

setting a screen display mode to simultaneously display two or more screens on a TV, including;

determining whether or not a menu key is input to display interactive program specific information including broadcasting program information;

determining [a] which screen display mode is the current screen display mode if it is determined that said menu key is input; and

displaying an interactive menu element including an icon in a menu display area depending on the screen display mode.

11. (Twice Amended) A method for displaying a menu of a TV [in which a screen display area is divided to display a plurality of screens as a user selects a screen display mode, the method for displaying a menu of a TV] comprising the steps of:

setting a screen display mode to simultaneously display a plurality of screens on a TV;

setting one of the plurality of screens as an interactive menu display screen wherein [for displaying] a user may select [selected] program specific information from said menu, including broadcasting program information; and

displaying an interactive menu element showing said program specific information, including broadcasting program information on the menu display screen.

13. (Amended) A method of displaying a menu in a TV screen, comprising the steps of:

determining whether a menu key is input by a user to display an interactive menu for program specific information including broadcasting program information on a TV screen;

determining which display mode is the [a] current display mode if said menu key is input;

dividing said TV screen into two or more first sub-display screens or into a main-display screen and one or more second sub-display screens according to which mode is determined to be the [said] current display mode;

setting one of said first or second sub-display screens as an interactive menu-display screen;

adjusting sizes of one or more interactive icons of said menu so as to be distinguishably recognized by said user when displayed on said menu-display screen; and

displaying said size-adjusted [adjusting] icons on said menu-display screen.